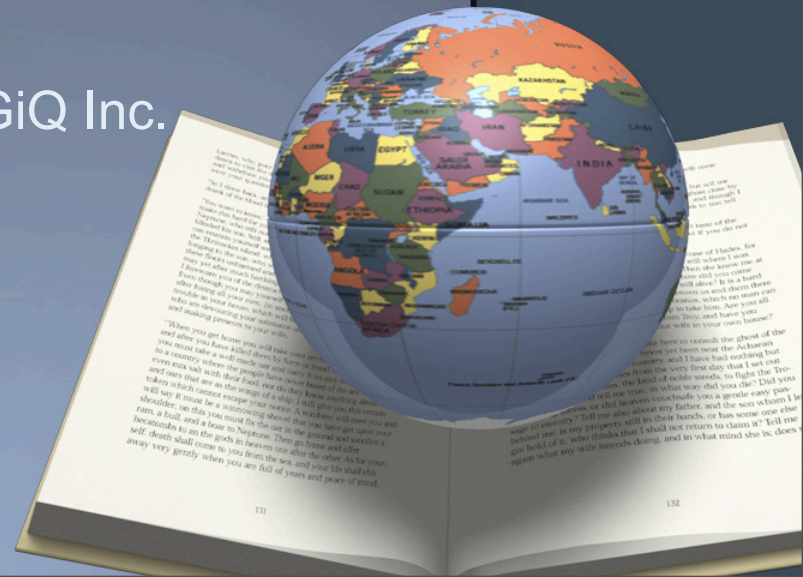


S Stands for System So Mind Your Ps and Qs

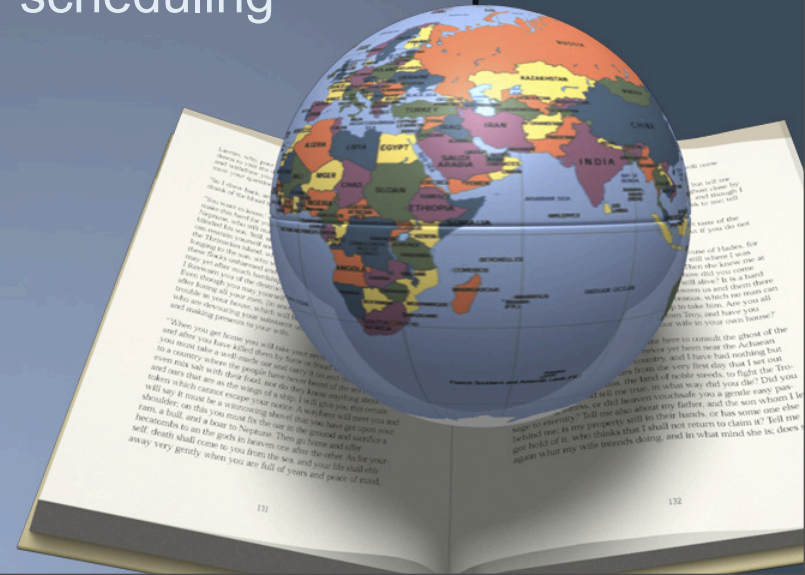
By Tara Seitz, BAPPGIS

GIS Specialist & Technical Writer, GiQ Inc.



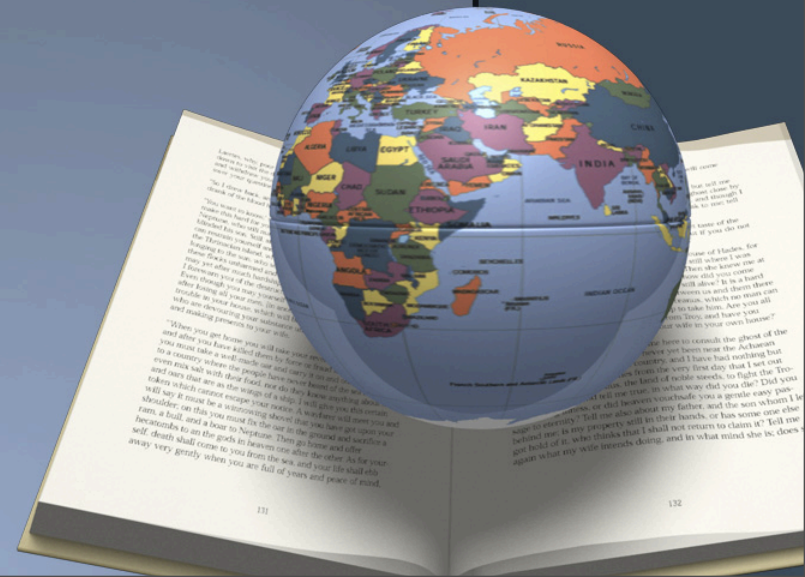
Presentation Agenda

- How to control your GIS for the continued improvement of your pipeline Operations, Maintenance and Risk, and therefore provide **COMPETITIVE ADVANTAGE**
- How to support legal, and protect against million\$ in **LITIGATION DEFENCE**
- How to write for purpose and use, by scheduling **SYSTEM AUDITS**



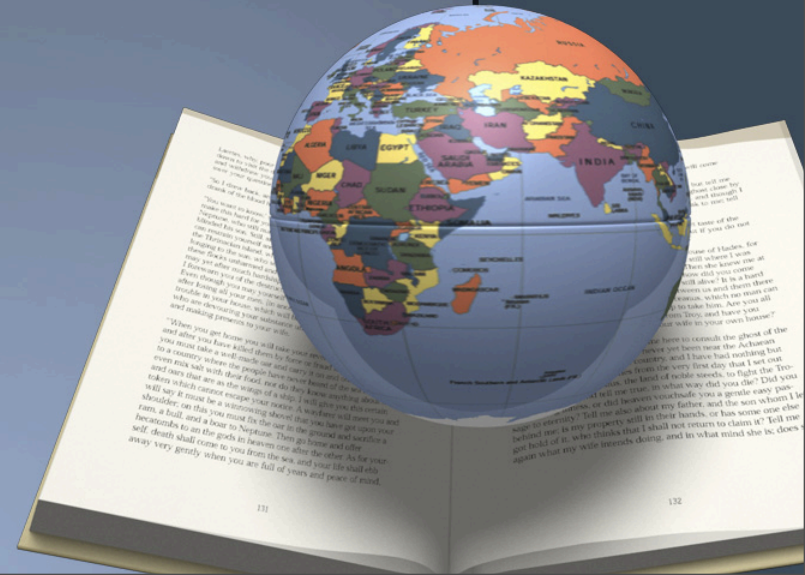
Summary of GIS

- GIS is an assembly line of tools and functions
- Data is the raw material fed into the assembly line
- Maps/Reports are the system's deliverable



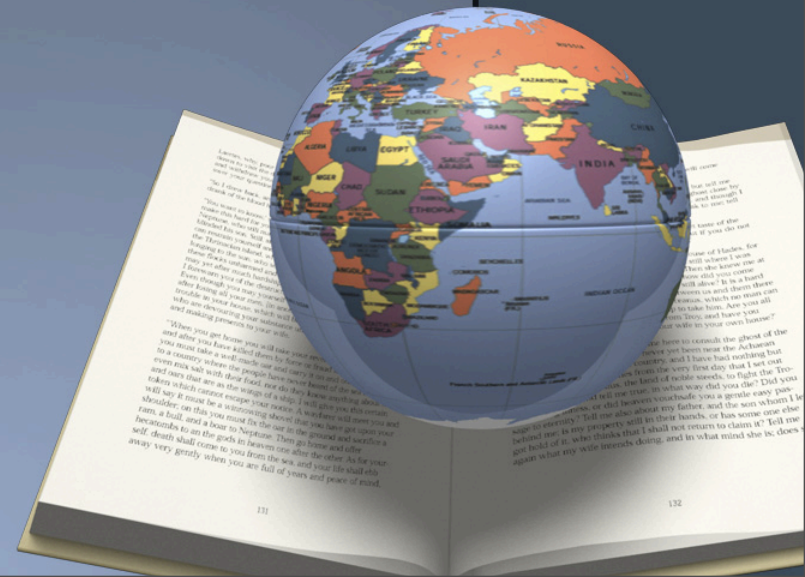
Summary of O&G GIS

- Oil & Gas GIS is an assembly line of datums, transformations, conversions, overlays, queries, buffering, geo-processing, algorithms, rules etc...
- The raw material is pipeline, pipe location, pressure data, coating, crossings, cathodic protection, fittings, valves, wells, landowners, access roads, ROW, pigging, dig sites etc..



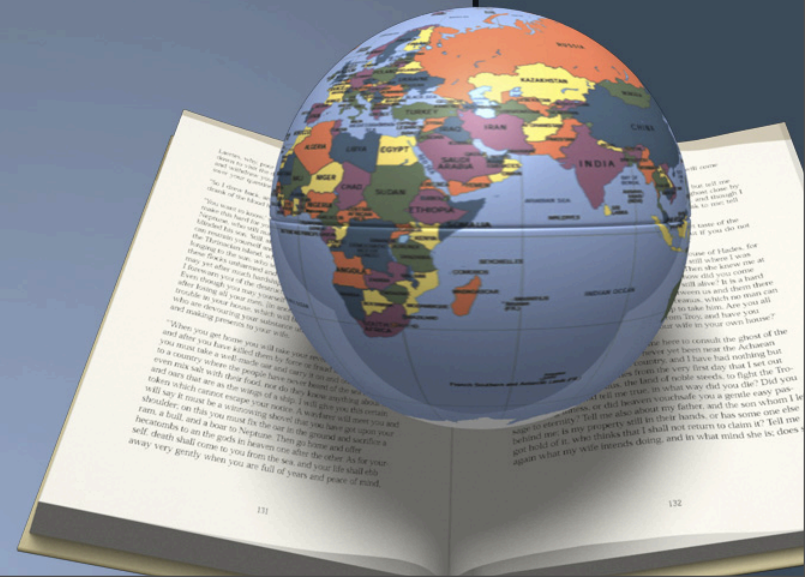
Summary of O&G GIS

- Engineers, corrosion managers, stakeholder relations personnel, marketers, the environmental team and regulatory agencies ask the data questions, and the system delivers the answer as a map/report
 - Where's the risk?
 - What does the corrosion program look like?
 - Where's the Class Location?
 - Where are the crossings?
 - Emergency Maps
 - ILI Results Map
 - Access Road Map
 - ROW Maintenance Map
 - etc....



Importance of O&G GIS

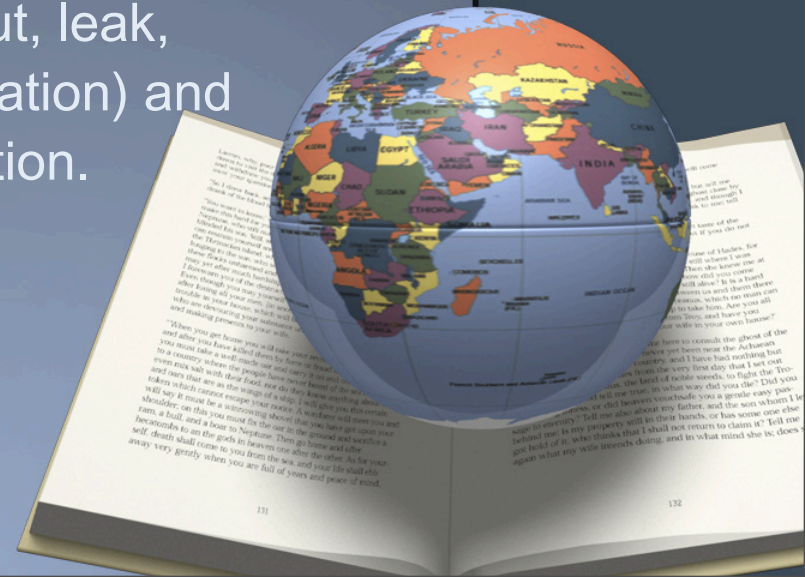
- It is critical to protect the O&G GIS
- To control the outputs is to control the system
- It is imperative to ensure that answers are provided regardless of the personnel involved



Competitive Advantage

- Pandemic Planning
- Incident Management
- Business Continuity

Competitive Advantage is the ability to provide GIS service during loss of personnel (pandemic, turnover, re-org) regardless of an incident (blowout, leak, landowner claim, environment contamination) and provide defensive evidence during litigation.



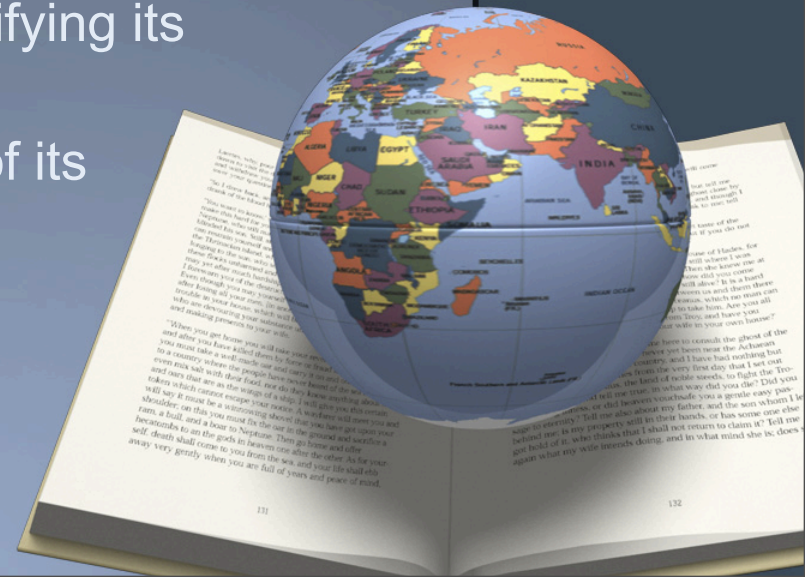
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Legal Support

“Any organization must be able to produce its records as evidence in legal proceedings - it is important to ensure the reliability, integrity and authenticity to be admissible.”

To use a document (map/report) as evidence, it must be accompanied in good practice of its handling. To store a record without qualifying its origin, the credibility of its creation, the information surrounding the conditions of its abstraction, renders the record moot.

~ ISO 15489-1 & ISO 15489-2

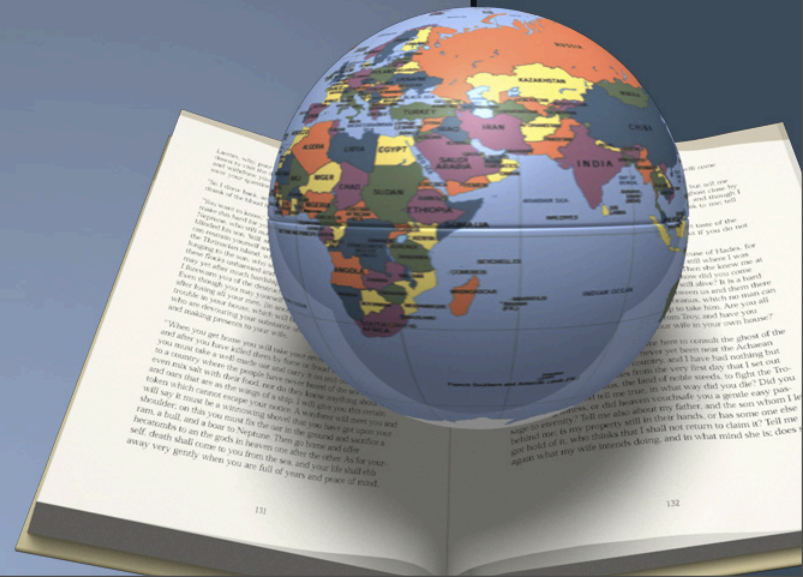


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System Audit

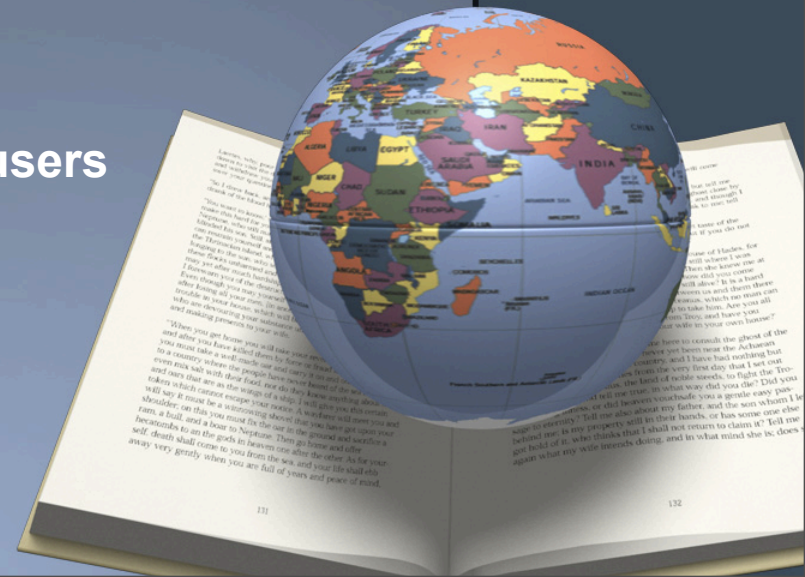
We cannot improve that which is not measured.
We cannot measure that which is not managed.

Manage your O&G GIS with a Quality Manual, measure how the important Operations, Maintenance and Risk activities are supported, and record how those transactions are delivered.



System Audit

- Start with a Current State Analysis
 - **100+ Inspection Diagnostic**
- Plot the GIS Process Map
 - **With or without facilitation**
- Quality Manual Creation
 - **Write Policies & Procedures**
 - **Itemize Measures and Controls**
- Training / Communications
 - **Delivery the program back to the users**
- Audit
 - **after 3 months**
 - **every year**

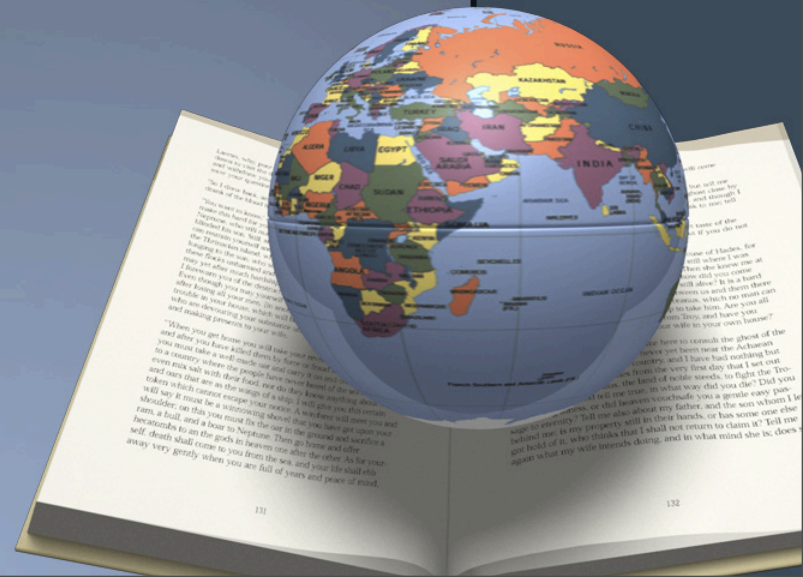


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System Audit

Congratulations!

With your Quality Manual you are empowered with a set of working tools, from which you can manage quality, protect from personnel changes, handle enterprise changes and measure those changes, defend against legal implications, and provide founded KPIs and ROIs.



Questions?

- Tara @ GIS – QMS.com

GiQ Inc.

